

WHAT IS CLAIMED IS:

1. A magnetic tape comprising:
a plurality of servo bands on which are written servo signals
5 for tracking control of a magnetic head,
wherein data is embedded in a servo signal written on one
of the servo bands, and the data is for specifying the servo band
where the servo signal positions.
- 10 2. A magnetic tape according to claim 1, wherein the servo
signal consists of a plurality of continuous patterns sets each
of which pattern is nonparallel stripes, and the data is embedded
in the servo signal by shifting a pair of nonparallel stripes along
the longitudinal direction of the magnetic tape.
- 15 3. A magnetic tape according to claim 1, wherein the servo
signal consists of a plurality of continuous patterns sets each
of which pattern is nonparallel stripes, and the data is embedded
in the servo signal by varying a width of a pair of nonparallel
20 stripes.
4. A magnetic tape according to claim 1, wherein the servo
signal consists of a plurality of continuous patterns sets each
of which pattern is nonparallel stripes, and the data is embedded
25 in the servo signal by changing a spacing interval between adjacent
continuous patterns sets.

5. A magnetic tape according to claim 1, wherein the servo bands are previously DC erased.

6. A method of specifying a servo band from a plurality of servo bands formed on a magnetic tape, comprising the steps of:

reading data that is embedded in a servo signal written on one of the servo bands for specifying the servo band where the servo signal positions; and

specifying the servo band where the servo signal positions based on the data.

7. A method of specifying a servo band according to claim 6, wherein the servo signal consists of a plurality of continuous patterns sets each of which pattern is nonparallel stripes, and the data is embedded in the servo signal by shifting a pair of nonparallel stripes along the longitudinal direction of the magnetic tape.

8. A method of specifying a servo band according to claim 6, wherein the servo signal consists of a plurality of continuous patterns sets each of which pattern is nonparallel stripes, and the data is embedded in the servo signal by varying a width of a pair of nonparallel stripes.

9. A method of specifying a servo band according to claim 6, wherein the servo signal consists of a plurality of continuous patterns sets each of which pattern is nonparallel stripes, and the data is embedded in the servo signal by changing a spacing interval between adjacent continuous patterns sets.

10. A method of specifying a servo band according to claim 6, wherein the servo bands are previously DC erased.

11. A method of specifying a servo band according to claim 6, wherein specifying the servo band is carried out only by reading one servo band.

12. An apparatus for specifying a servo band from a plurality of servo bands formed on a magnetic tape, comprising:

a servo read head for reading a servo signal written on one of the servo bands; and

a servo band specifying section for specifying, from the servo signal written on one of the servo bands to be read out by the servo read head, the servo band where the servo signal positions.

13. An apparatus for specifying a servo band according to claim 12, wherein specifying the servo band is carried out only by reading one servo band.

14. A method of manufacturing a magnetic tape of claim

1 comprising:

a first step of encoding data for specifying a servo band
where the servo signal positions:

a second step of converting the data that is encoded in the
5 first step into a recording pulse current; and

a third step of supplying the recording pulse current to
the servo write head and writing on the servo band of the magnetic
tape a servo signal in which is embedded the encoded data.

10 15. A method of manufacturing a magnetic tape of claim
2 comprising:

a first step of encoding data for specifying a servo band
where the servo signal positions:

a second step of converting the data that is encoded in the
15 first step into a recording pulse current; and

a third step of supplying the recording pulse current to
the servo write head and writing on the servo band of the magnetic
tape a servo signal in which is embedded the encoded data.

20 16. A method of manufacturing a magnetic tape of claim
3 comprising:

a first step of encoding data for specifying a servo band
where the servo signal positions:

a second step of converting the data that is encoded in the
25 first step into a recording pulse current; and

a third step of supplying the recording pulse current to

the servo write head and writing on the servo band of the magnetic tape a servo signal in which is embedded the encoded data.

17. A servo writer used for manufacturing a magnetic tape of claim 1, comprising:

a magnetic tape running mechanism for taking up with a take-up reel the magnetic tape that is fed out from a supply reel;

a servo write head for writing a servo signal on a servo band of the magnetic tape in a manner contacting with the magnetic tape while the magnetic tape is running;

a controller for encoding data for specifying a servo band where the servo signal positions; and

a pulse generation circuit for converting the encoded data outputted from the controller into a recording pulse current, and for supplying the recording pulse current to a coil of the servo write head.

18. A servo writer used for manufacturing a magnetic tape of claim 2, comprising:

a magnetic tape running mechanism for taking up with a take-up reel the magnetic tape that is fed out from a supply reel;

a servo write head for writing a servo signal on a servo band of the magnetic tape in a manner contacting with the magnetic tape while the magnetic tape is running;

a controller for encoding data for specifying a servo band where the servo signal positions; and

a pulse generation circuit for converting the encoded data outputted from the controller into a recording pulse current, and for supplying the recording pulse current to a coil of the servo write head.

5

19. A servo writer used for manufacturing a magnetic tape of claim 3, comprising:

a magnetic tape running mechanism for taking up with a take-up reel the magnetic tape that is fed out from a supply reel;

10 a servo write head for writing a servo signal on a servo band of the magnetic tape in a manner contacting with the magnetic tape while the magnetic tape is running;

a controller for encoding data for specifying a servo band where the servo signal positions; and

15 a pulse generation circuit for converting the encoded data outputted from the controller into a recording pulse current, and for supplying the recording pulse current to a coil of the servo write head.